

## New England Biolabs Certificate of Analysis

Product Name: PURExpress® (aa, tRNA) Kit  
 Catalog Number: E6840S  
 Lot Number: 10033422  
 Expiration Date: 01/2021  
 Storage Temperature: -80°C  
 Specification Version: PS-E6840S v1.0

PURExpress® (aa, tRNA) Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0760AVIAL	PURExpress® Solution B	10032807	Pass
N6843AVIAL	Amino Acid Mix	10032811	Pass
N6842AVIAL	PURExpress® tRNA Mix	10032810	Pass
N0424AVIAL	Control (DHFR) template	10014681	Pass
B6841AVIAL	PURExpress® delta aa, tRNA	10032809	Pass

Assay Name/Specification	Lot # 10033422
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (DHFR)</b>            A 25 µl reaction in the presence of 250 ng E. coli DHFR template DNA and 20 units RNase Inhibitor containing the components of the PURExpress® Δ (aa, tRNA) Kit incubated for 2 hours at 37°C results in the expected 20 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (Vent DNA Polymerase)</b>            A 25 µl reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress® Δ (aa, tRNA) Kit incubated for 2 hours at 37°C results in the expected 89 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (--galactosidase)</b>            A 25 µl reaction in the presence of 250 ng β-galactosidase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress® Δ (aa, tRNA) Kit incubated for 2 hours at 37°C results in the expected 116 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in PURExpress® Δ (aa, tRNA) Kit and meet the designated specifications.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.



Ying Zhou  
Production Scientist  
27 Dec 2018



Ying Zhou  
Packaging Quality Control Inspector  
02 Jan 2019